

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NUMBER

SERIAL NO.:

INFORMATION DISCLOSURE STATEMENT

22491-0005

09/654,293

UNDER 37 CFR §1.56, §1.97, and §1.98

PTO-1449 FORM

SHEET 1 OF 3

APPLICANTS:

Christmann et al.

FILING DATE:

September 1, 2000

GROUP ART UNIT

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U.S. PATENT DOCUMENTS

† EX'R INITIAL	*REF. #	PATENT NUMBER	DATE (MO/YR)	NAME	U.S. CLASS SUBCLASS	FILING DATE (If appropriate)
TNT	A1	H1065	6/1992	Salter et al.	800/2	7/1988
	A2	4,903,635	2/1990	Hebrank	119/1	6/1987
	A3	4,997,763	3/1991	Hughes et al.	435/172.3	7/1987
	A4	5,011,780	4/1991	Perry	435/317.1	6/1988
	A5	5,106,617	4/1992	Federicksen et al.	424/85.2	1/1990
	A6	5,158,038	10/1992	Sheeks et al.	119/6.8	6/1990
	A7	5,162,215	11/1992	Bosselman et al.	435/172.3	9/1988
	A8	5,258,307	11/1993	Simkiss et al.	435/317.1	9/1990
	A9	5,285,750	2/1994	Molian et al.	119/174	6/1993
	A10	5,340,740	8/1994	Petitte et al.	435/240.2	5/1992
	A11	5,656,479	8/1997	Petitte et al.	435/349	5/1994
	A12	5,699,751	12/1997	Phelps et al.	119/6.8	10/1996
	A13	5,784,992	7/1998	Petitte et al.	119/6.8	2/1995
	A14	5,897,998	4/1999	Speksnijder et al.	435/349	8/1997
✓	A15	6,020,465	2/2000	Sekellick et al.	530/351	4/1997
TNT	A16	6,027,722	2/2000	Hodgson	424/93.21	3/1994

FOREIGN PATENT DOCUMENTS

† EX'R INITIAL	*REF #	PATENT NUMBER	DATE (MO/YR)	COUNTRY	TRANSLATION (YES/NO)
TNT	B1	GB 2331751A	6/1999	Europe	NO
	B2	GB 2331751B	1/2000	Europe	NO
	B3	WO 90/11355	10/1990	PCT	NO
	B4	WO 97/47739	12/1997	PCT	NO
	B5	WO 98/38283	9/1998	PCT	NO
	B6	WO 98/14053	4/1998	PCT	NO
	B7	WO 99/10505	3/1999	PCT	NO
✓	B8	WO 99/19472	4/1999	PCT	NO
TNT	B9	WO 00/09674	2/2000	PCT	NO

OTHER DOCUMENTS

† EX'R INITIAL	*REF #	CITATION (Author, Article Title, Journal/Book Title, Date, Pertinent Pages, etc.)
TNT	C1	Askew et al. "Site-Directed Point Mutations in Embryonic Stem Cells: a Gene-Targeting Tag-and-Exchange Strategy" Molecular and Cellular Biology 13(7):4115-4124 (7/93)
↓	C2	Bosselman et al. "Germline Transmission of Exogenous Genes in the Chicken" Science 243:533-535 (1/27/89)
TNT	C3	Cibelli et al. "Cloned Transgenic Calves Produced from Nonquiescent Fetal Fibroblasts" Science 280:1256-1258 (5/22/98)


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56, §1.97, and §1.98 <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center; margin-right: 10px;"> OIPF MAR 21 2001 PATENT & TRADEMARK OFFICE </div> <div> PTO-1449 FORM SHEET 2 OF 3 </div> </div>		ATTORNEY DOCKET NO. 22491-0005	SERIAL NO.: 09/654,293
APPLICANTS: Christmann et al.		<div style="transform: rotate(-15deg); font-size: 2em; font-weight: bold;">RECEIVED</div> <div style="font-size: 1.2em;">MAR 22 2001</div> <div style="font-size: 1.5em; font-weight: bold;">TC 1700</div>	
FILING DATE: September 1, 2000			
OTHER DOCUMENTS CONT'D			
† EX'R INITIAL	*REF #	CITATION (Author, Article Title, Journal/Book Title, Date, Pertinent Pages, etc.)	
TNT	C4	Eystone et al. "Nuclear transfer from somatic cells: applications in farm animal species" J. Reprod. Fertil. Supplement 54:489-497 (1999)	
	C5	Gilbert et al. "A Technique for the Fistulation of the Hen's Oviduct Through the Abdominal Wall, with Recovery of the Ovum" J. Reprod. Fertil. 5:451-453 (1963)	
	C6	Harvey "Nuclear transfer and gene targeting in domestic animals: bioreactors of the future" Advanced transgenesis and cloning: genetic manipulation in animals, Electronic Workshop Presentation: Paper No. 8 (9/15/98)	
	C7	Hasty et al. "Introduction of a subtle mutation into the <i>Hox-2.6</i> locus in embryonic stem cells" Nature 350:243-246 (3/21/91)	
	C8	Leff "Cloning method does dolly one better" BioWorld Today 11(159):1,4-7 (8/17/00)	
	C9	Le Mouellie et al. "Targeted replacement of the homeobox gene <i>Hox-3.1</i> by the <i>Escherichia coli lacZ</i> in mouse chimeric embryos" Proc. Natl. Acad. Sci. USA 87:4712-4716 (6/90)	
	C10	Love et al. "Transgenic birds by DNA microinjection" Bio/Technology 12(1):60-3 (1/94)	
	C11	McCreath et al. "Production of gene-targeted sheep by nuclear transfer from cultured somatic cells" Nature 405:1066-1069 (7/29/00)	
	C12	McKeen "Cloning and nuclear transfer: a short glossary" Roslin Institute Online (1999)	
	C13	Naito et al. "Introduction of Exogenous DNA Into Somatic and Germ Cells of Chickens by Microinjection Into the Germinal Disc of Fertilized Ova" Molecular Reproduction and Development 37:167-171 (1994)	
	C14	Ochiai et al. "Synthesis of Human Erythropoietin <i>In Vivo</i> in the Oviduct of Laying Hens by Localized <i>In Vivo</i> Gene Transfer Using Electroporation" Poultry Science 77:299-302 (1998)	
	C15	Olsen et al. "The site of fertilization in the domestic fowl" J. Ex. Zoology 109:355-366 (1948)	
	C16	Otten et al. "The MMTV LTR Promoter is Induced by Progesterone and Dihydrotestosterone but not by Estrogen" Molecular Endocrinology 2(2):143-147 (1988)	
	C17	Pancer et al. "Recovery of Ova and Their Re-Insertion Into the Hen's Oviduct Through a Fistula" British Poultry Science 30:953-957 (1989)	
	C18	Piston "Imaging living cells and tissues by two-photon excitation microscopy" Trends in Cell Biology 9:66-69 (2/99)	
	C19	Polejaeva et al. "Cloned pigs produced by nuclear transfer from adult somatic cells" Nature 407:505-509 (8/17/00)	
	C20	Polejaeva et al. "New Advances in Somatic Cell Nuclear Transfer: Application in Transgenesis"; Theriogenology 53:117-126 (2000)	
	C21	Sanders et al. "Chicken Egg White Genes: Multihormonal Regulation in a Primary Cell Culture System" Endocrinology 116(1):398-405 (1985)	
	C22	Sanders et al. Biochemistry 27:6550-6557 (1988)	
	C23	Sang et al. "Episomal Replication of Cloned DNA Injected Into the Fertilised Ovum of the Hen, <i>Gallus domesticus</i> " Molecular Reproduction and Development 1:98-106 (10/3/89)	
	C24	Sang "Transgenic chickens - methods and potential applications" Tibtech 12:415-419 (10/94)	
	C25	Schweers et al. "A Protein with a Binding Specificity Similar to NF-κB Binds to a Steroid-dependent Regulatory Element in the Ovalbumin Gene" Journal of Biological Chemistry 266(16):10490-10497 (6/5/91)	
TNT	C26	Schweers et al. "The Steroid-dependent Regulatory Element in the Ovalbumin Gene Does Not Function as a Typical Steroid Response Element" Journal of Biological Chemistry 265(13):7590-7595 (5/5/90)	

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APPLICANTS: Christmann et al.		<div style="position: relative; height: 100px;"> RECEIVED TC 1700 <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-weight: bold;">MAR 22 2001</div> </div>	
FILING DATE: September 1, 2000			

OTHER DOCUMENTS CONT'D		
TNT	C27	Shuman "Production of transgenic birds" Experientia 47:897-905 (1991)
	C28	Simkiss "Transgenic birds" Cambridge University Press 106-137 (1994)
	C29	Squirrell et al. "Long-term two-photon fluorescence imaging of mammalian embryos without compromising viability" Nature Biotechnology 17:763-767 (8/99)
	C30	Stacey et al. "Use of Double-Replacement Gene Targeting to Replace the Murine α -Lactalbumin Gene with Its Human Counterpart in Embryonic Stem Cells and Mice" Molecular and Cellular Biology 14(2):1009-1016 (2/94)
	C31	Tanaka et al. "Chick production by <i>in vitro</i> fertilization of the fowl ovum" Journal of Reproduction and Fertility 100:447-449 (1994)
	C32	Valancius et al. "Testing an 'In-Out' Targeting Procedure for Making Subtle Genomic Modifications in Mouse Embryonic Stem Cells" Molecular and Cellular Biology 11(3):1402-1408 (3/91)
	C33	Wentworth "Fistulation of the Hen's Oviduct" Poultry Science 39:782-784 (1960)
	C34	Wilmut et al. "Embryonic and somatic cell cloning" Reprod. Fertil. Dev. 10:639-643 (1998)
	C35	Wong "DNA-Treated sperm as a gene transfer vector - revisited" Department of Animal and Poultry Sciences, Virginia Tech 7/1996
TNT	C36	Yom et al. "Genetic engineering of milk composition: modification of milk components in lactating transgenic animals" American Journal of Clinical Nutrition 58 (Supplement), 299S-306S, 1993

EXAMINER'S SIGNATURE <div style="font-family: cursive; font-size: 1.5em; margin-top: 10px;"> the n te </div>	DATE CONSIDERED <div style="font-size: 1.2em; margin-top: 10px;"> 11/27/01 </div>
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† EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Line through citation if not in conformance and not considered. *Include copy of this form in next communication to applicant.*

* If an asterisk is placed beside the reference number, a copy is not provided because the reference was previously cited by or submitted to the PTO in a prior application that is identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. 1.98(d).